

AMENDMENTS TO THE CLAIMS

Claims 1-19 (Cancelled)

20. (New) A portable terminal device comprising:

an imaging unit that images an object;

a display unit that displays an image produced by said imaging unit at a predetermined frame rate;

a code-reading instructing unit that instructs that code-reading should be started; and

a code recognizing unit that recognizes a code of the imaged object in response to a code-reading instruction given by said code-reading instructing unit, and

a frame-rate control unit that renders the frame rate after the issuance of the instruction for starting code-reading into a frame rate necessary for code recognition.

21. (New) The portable terminal device according to claim 20, wherein said frame-rate control unit sets the frame rate prior to the start of code reading to be higher than the frame rate after the start of code reading.

22. (New) The portable terminal device according to claim 20 or 21, further comprising:

an imaging procedure switching unit that switches the imaging unit between an object mode and a code mode,

wherein, after the imaging unit is switched by said imaging procedure switching unit to a code mode and before the issuance of the instruction for starting code reading, image

information is displayed on said display unit at a frame rate that is higher than the frame rate following the issuance of the instruction for starting code reading.

23. (New) The portable terminal device according to claim 20 or 21, wherein said imaging procedure switching unit changes an image captured area in said imaging unit depending on a characteristic of an imaged code.

24. (New) The portable terminal device according to claim 22, wherein said imaging procedure switching unit changes the display magnification of image information on said display unit depending on a characteristic of an imaged code.

25. (New) The portable terminal device according to claim 24, wherein said characteristic of an imaged code comprises the number of dimensions of the imaged code.

26. (New) The portable terminal device according to claim 22, wherein said imaging procedure switching unit changes at least one of gradation property, contrast, brightness, white balance, exposure, focus depth, edge enhancement, and resolution when the imaging unit is switched to code mode.

27. (New) The portable terminal device according to claim 20, further comprising a notification unit that notifies the result of recognition by said code recognizing unit.

28. (New) The portable terminal device according to claim 27, wherein said notification unit notifies the result of recognition via sound, voice, or a message displayed on said display unit.

29. (New) The portable terminal device according to claim 20, wherein the result of recognition is displayed on said display unit after code recognition is completed.

30. (New) The portable terminal device according to claim 27, further comprising a timer setting unit that counts a set time,

wherein said notification unit notifies the failure of recognition upon failure to recognize a code within a time set by said timer setting unit.

31. (New) A portable terminal device comprising:
a camera for imaging an object; and
a display unit for displaying an imaged object,
wherein said camera and said display unit are housed in a main body, said portable terminal device further comprising a marker indicating the position of said camera.

32. (New) The portable terminal device according to claim 31, wherein said marker is printed, engraved, or attached through an adhesive medium to the surface of said main body directly behind an opening of said camera.

33. (New) The portable terminal device according to claim 31, wherein said display unit is disposed on said main body directly behind an opening of said camera, said portable terminal device further comprising a marker display unit that displays image information representing said marker on said display unit.

34. (New) The portable terminal device according to claim 31, wherein said marker display unit, in conjunction with the shutter operation of said camera, or simultaneously with the notification of the result of imaging, erases the display of said image information representing said marker either automatically or in accordance with a user instruction, wherein said display of image information representing said marker can be later turned on in response to a further user instruction.

35. (New) The portable terminal device according to claim 20 or 31, wherein said portable terminal device is a cellular phone or a portable information terminal.

36. (New) The portable terminal device according to claim 20, further comprising an illuminating unit that illuminates an imaged object.

37. (New) The portable terminal device according to claim 36, further comprising illumination switching for turning on/off said illuminating unit.

38. (New) A computer-readable recording medium recorded with a program for causing a computer to execute the following steps:

imaging step for imaging an object;

imaging procedure switching step for switching between an object imaging procedure and a code imaging procedure;

displaying step for displaying an image obtained by said imaging step; and

code recognizing step for recognizing a code of an imaged object during the code imaging procedure.